

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

1-4 (cancelled).

5 (currently amended). ~~The method of claim 1~~ A method of managing a plurality of data storage media, each of said media being designatable as being in a writeable state or a non-writeable state, said method comprising:

designating a quantity of said plurality of media as being in the writeable state,  
said quantity being equal to a concurrency value;

determining that none of the media designated in the writeable state has  
sufficient space to store specified data;

designating an additional one of said plurality of media as being in the  
writable state whereby the aggregate number of media in the writable state exceeds said  
concurrency value; and

writing said specified data to the additional medium,

wherein said plurality of media are mountable on one or more drives, said drives being associated with a device, said device having a library which stores media and a robotic mechanism which mounts media stored in said library on said drives, and wherein said determining act comprises:

determining that none of said plurality of media in the writeable state located within said device has sufficient space to store said specified data;

identifying a first medium located outside of said device, the identified medium being in the writeable state;

determining that an amount of time has passed without the identified medium having been placed in said device;

re-evaluating said plurality of media; and

determining, based on the re-evaluation, that none of said plurality of media in the writeable state has sufficient space to store said specified data.

6-8 (cancelled).

9 (currently amended). ~~The method of claim 8~~ A method of managing a plurality of data storage media, each of said media being designatable as being in a writeable state or a non-writeable state, said method comprising:

designating a quantity of said plurality of media as being in the writeable state, said quantity being equal to a concurrency value;

determining that none of the media designated in the writeable state has sufficient space to store specified data;

designating an additional one of said plurality of media as being in the writeable state whereby the aggregate number of media in the writeable state exceeds said concurrency value; and

writing said specified data to the additional medium,  
wherein said specified data comprises a plurality of data objects, and wherein said method further comprises persisting in a memory the locations on which each of said data objects is stored, wherein each of said data objects is a file stored in a file system, and wherein said persisting act comprises:

setting a reparse point in said file system for each of the files; and  
storing the location of each migrated file in the reparse point corresponding to the migrated file.

10-15 (cancelled).

16 (currently amended). ~~The method of claim 14~~ A method of using a plurality of media for a data migration system, each of said media being designatable as being in a writeable state or a non-writeable state, said method comprising:

receiving a request to migrate a quantity of data;  
identifying, from among said plurality of media, a set of media that are in the writeable state and that have sufficient space to store said quantity of data;

determining that each of the media in said set is in use for the reading or writing of data;

determining that the number of said plurality of media in the writeable state is

greater than or equal to a first number;

waiting for a medium from said set to become available; and

writing said data to the available medium,

wherein said data comprises a plurality of data objects, and wherein said method further comprises persisting in a memory the locations to which each of said data objects has been migrated, wherein each of said data objects is a file stored in a file system, and wherein said persisting act comprises:

setting a reparse point in said file system for each of the migrated files; and

storing the location of each migrated file in the reparse point corresponding to the migrated file.

17 (currently amended). ~~The method of claim 12~~ A method of using a plurality of media for a data migration system, each of said media being designatable as being in a writeable state or a non-writeable state, said method comprising:

receiving a request to migrate a quantity of data;

identifying, from among said plurality of media, a set of media that are in the writeable state and that have sufficient space to store said quantity of data;

determining that each of the media in said set is in use for the reading or writing of data;

determining that the number of said plurality of media in the writeable state is greater than or equal to a first number;

waiting for a medium from said set to become available; and

writing said data to the available medium,

wherein said data migration system includes a device having one or more drives which read and write said plurality of media, a library for the storage of media, and a robotic mechanism which mounts media stored in said library on said drives, said method further comprising:

determining that none of the media located in said library is in the writeable state.

18-22 (cancelled).

23 (currently amended). ~~The method of claim 20~~ A method of using a plurality of double-sided media for a data migration system, each side of said media being designatable as being in a writeable state or a non-writeable state, said method comprising:

receiving a request to migrate a quantity of data;

identifying, from among said plurality of media, a first set of media having a side in the writeable state and whose side in the writeable state has sufficient space to store said quantity of data;

determining that each of said media in said first set is in use for the reading or writing of data;

identifying a first one of said plurality of media which is not in use for the reading or writing of data, and which has a first side that is in the non-writeable state and a second side whose state is not designated;

designating said second side of said first medium as being in the writeable state; and

writing said data to said second side of said first medium,

wherein said data migration system includes a device having one or more drives which read and write said plurality of media, a library for the storage of media, and a robotic mechanism which mounts media stored in said library on said drives, said method further comprising:

identifying, from among said plurality of media, a second set of media having a side in the writeable state and whose side in the writeable state has sufficient space to store said quantity of data, said second set being different from said first set; and

determining that each of said media in said second set is not located in said device.

24-26 (cancelled).

27 (currently amended). ~~The method of claim 26~~ A method of storing a quantity of data on one of a plurality of media, each of said media being designatable as being in a writeable state or a non-writeable state, said method comprising:

determining that the number of said media in a writeable state is greater than or equal to a first number;

determining whether any of said media in a writeable state have sufficient space to store said data;  
if any of said media in a writeable state have sufficient space to store said data,  
writing said data to a first of said media in the writeable state; and  
if none of said media in said writeable state have sufficient space to store said data;  
identifying a second medium, said second medium not being  
designated as being in either the writeable state or the non-writeable state;  
designating said second medium as being in the writeable state; and  
writing said data to said second medium, wherein said media are mountable on one or more drives, said drives being associated with a device, said device having a library which stores media and a robotic mechanism which mounts media stored in said library on said drives, wherein said method further comprises:  
determining that said first medium is presently in use for the reading and writing of data;  
waiting for said first medium to become available prior to writing said data to said first medium; and  
determining that said first medium is not stored in said library;  
and wherein said waiting act comprises:  
prompting a user to insert said first medium in said device.

28-35 (cancelled).

36 (currently amended). ~~The system of claim 35~~ A system for storing data on media comprising:  
a media management module which communicates with a database that stores attributes of a plurality of media, and which selects media for writing in accordance with the attributes stored in said database, said media management module including logic which selects said media based on a concurrency value;  
a migration module which communicates with a storage device, said storage device including a plurality of drives which write data to said media, said migration module

receiving an indication of a selected medium from said media management module and writing data to the selected medium using said storage device; and

a persistence module which receives from said migration module the location at which said data is stored on said media, and which stores the location of said data in a memory location,

wherein said data object storage system comprises a settable reparse point for each data object stored in said data object storage system, each of said reparse points comprising a reparse data location, wherein said memory location comprises at least one of the reparse data locations.

37-40 (cancelled).